

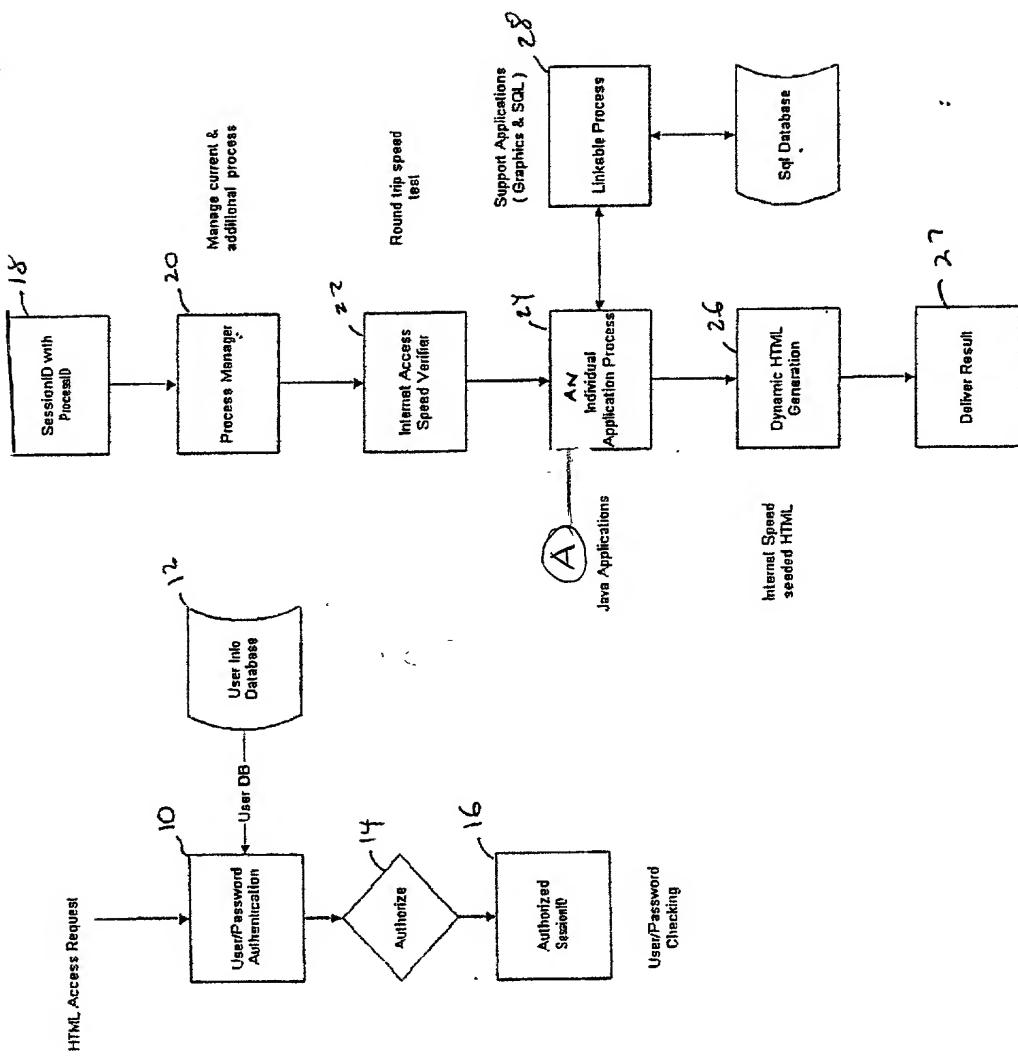
WDIE™

Wireless Data Input Engine

FIGURE (i)

✓
Current

Figure 2



Engineering-i Web support block diagram

FIGURE 2 CA)

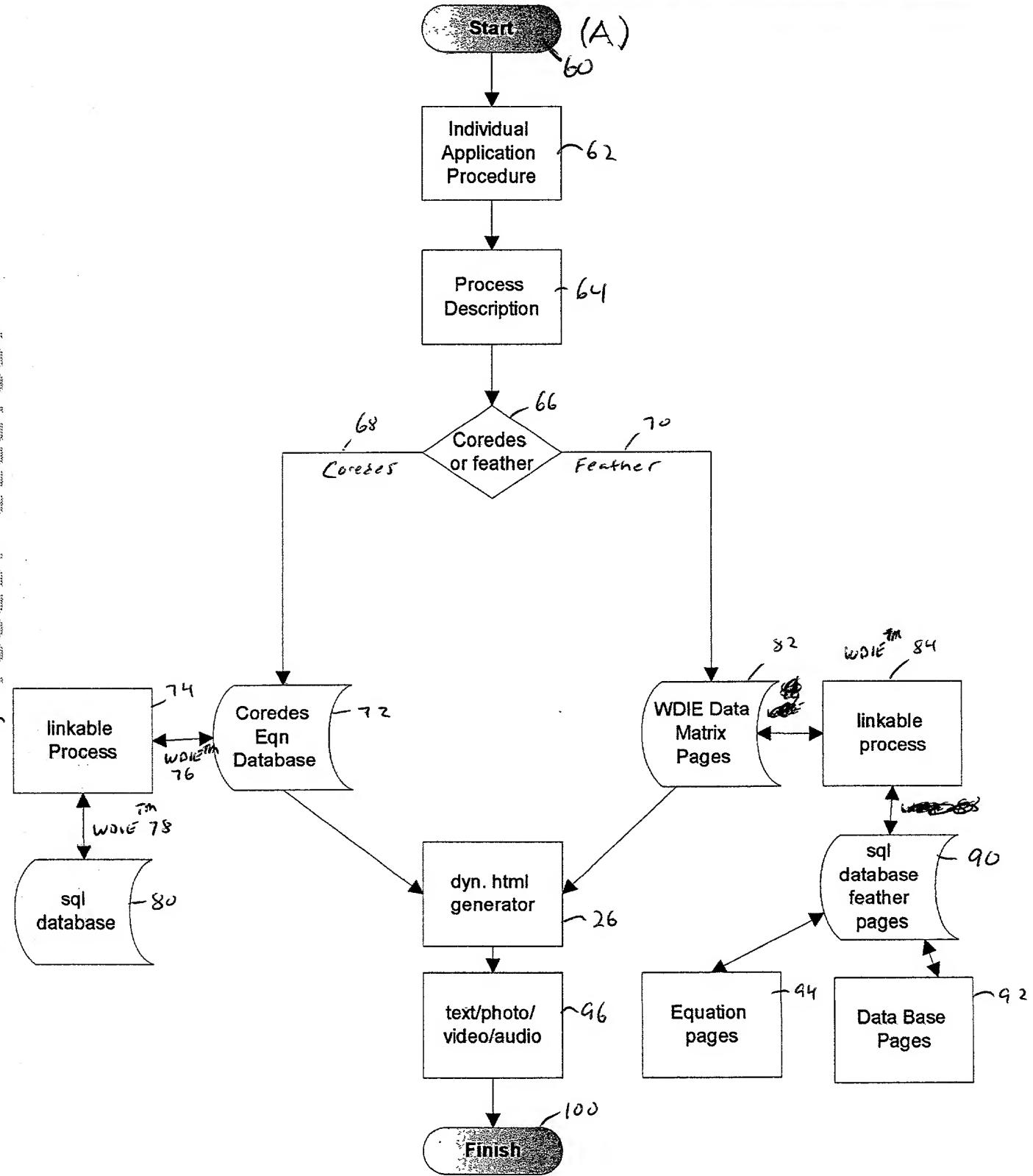
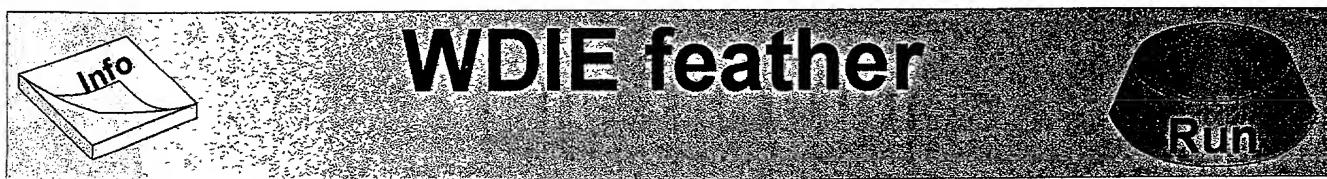


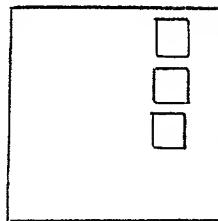
FIGURE 2(B)

WDIE feather

1) EQUATION PAGE

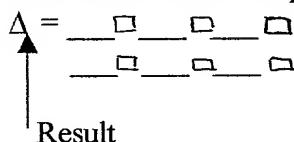
Original Input = _____;
;
;
;

INPUT

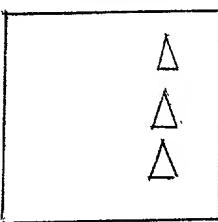


Page

Calculation Yields Output



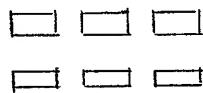
OUTPUT



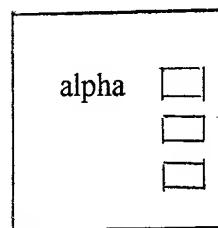
Page

2) DATA MATRIX PAGE

Original Discrete Input Data

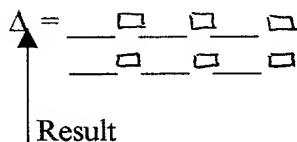


INPUT

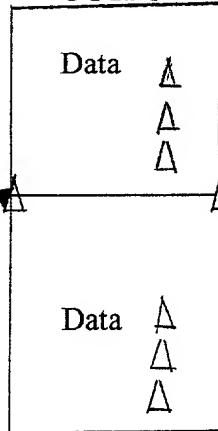


Page

Calculation (if necessary)



OUTPUT



Page

Page

Output can be the same data, index keyed data or updated data, via mathematical calculation, spreadsheet analysis or updated relational database.

WDIE *feather*

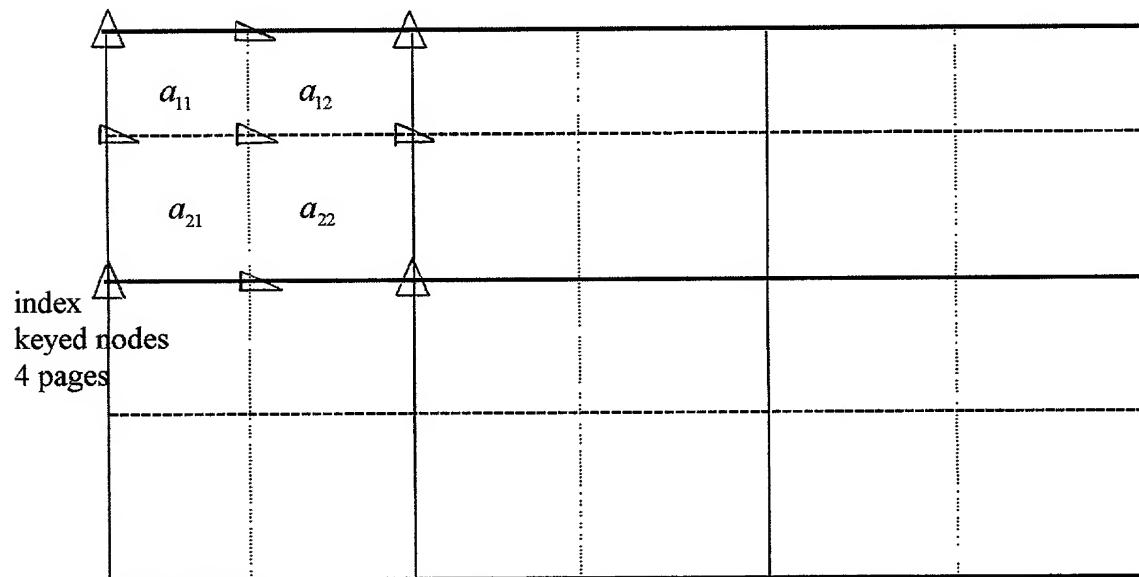
WDIE *feather* is always a page delimited on and transmitted by a server.

The 'grid' System

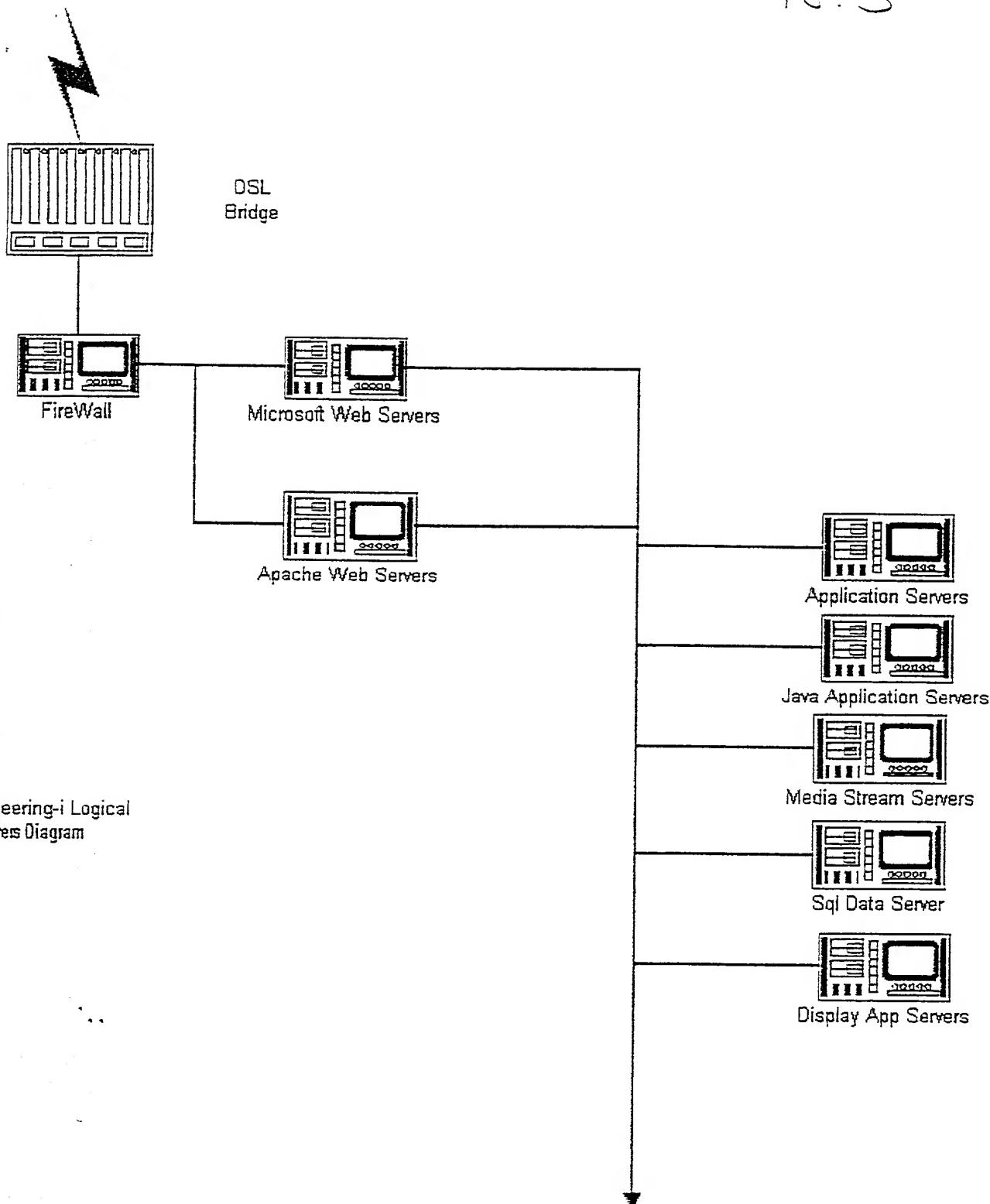
A connected 'grid' of WDIE feather pages is created and placed over an existing spreadsheet or database page. This 'grid' becomes an interface to an SQL (relational) database. The index keyed nodes point to a WDIE data page and is linked to an output. For long-distance wireless transmission to small mobile devices, the text is limited to 2k ranges for use on a Palm PDA or other small devices.

A symmetrical square matrix may be employed for some applications. The choice to use a symmetrical matrix will depend on the organization of the original data.

A 'grid' is illustrated below. In this case, a square matrix composed of WDIE *feather* pages is placed over an existing database page to reduce the original data to WDIE *feather* palm page size input. In this case, each 4 page segment forms a square matrix within which data can be manipulated.



Any page in a 4 page matrix, or any whole square 4 page matrix can be reinserted, via index keying, into the original database to update the original data.



Engineering-i Logical
Servers Diagram

debbiewb
10/12/01 17:43:50

Figure (4)

EarthLink 5.0 - (dwbus@earthlink.net) - [Web - Engineering-i.com]

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engineering-i.com

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engineering-i.com will provide a unique forum for engineering analysis and communication through the medium of the Internet.

engineering-i.com is the answer to the increasing demands of designers and engineers working with sandwich composites in the marine field, aerospace, building and construction industries.

Enter Wireless Access

Enter

Start | Untitled -... | Connect... | EarthLi... | 8:36 PM

Microsoft

debbiewb
10/21/01 18:57:37

7-202-2(A)

EarthLink 5.0 - (dwbus@earthlink.net) - [Web - Engineering-I]

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EarthLink

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Microsoft

engineering-i.com

Welcome to engineering-i.com!

engineering-i.com will provide a unique input/output analysis for engineering, bio-engineering and medical data analysis through the medium of the Internet.

engineering-i.com is using WDIETM(woody), the Wireless Data Input Engine,

is the answer to increasing demands of engineers, bio-medical scientists and the medical profession for full cell-phone, wireless card, wired Modem to broadband communication.

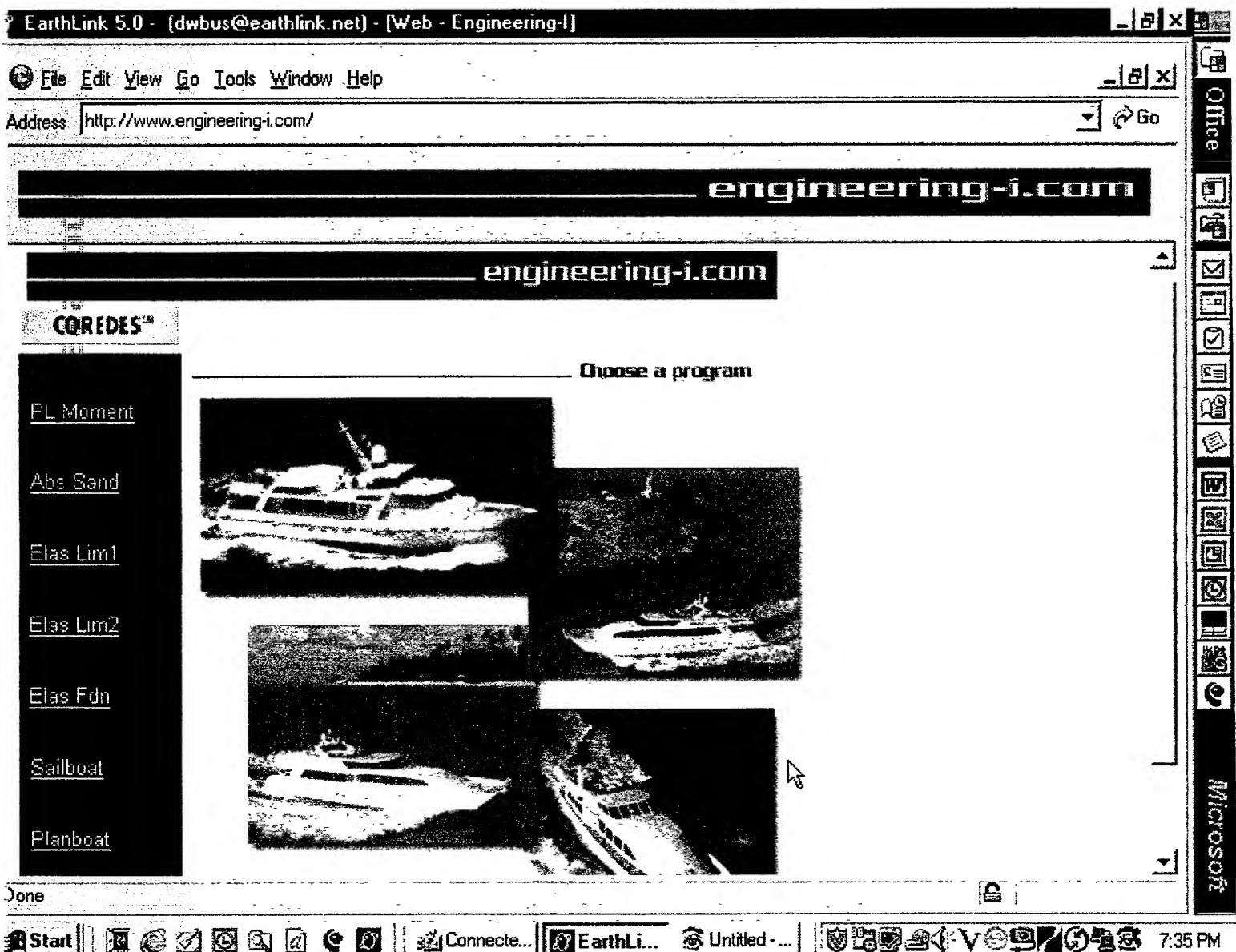
Enter WDIE COREDESTM

Enter WDIETM MEDICAL

Enter COREDES Modem/DSL

debbiewb
10/12/01 17:55:44

FIGURE (s)



debbiewb
10/12/01 17:45:43

F, S, 2 = (6)

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File

Office

Microsoft

engineering-i.com

Core As Elastic Limit 1

Copyright 1983-2000, engineering-i.com

Input Parameters:

| | |
|------------------------------------|---|
| Top Skin Thickness: | .1 |
| Core Thickness: | .954 |
| Bottom Skin Thickness: | .112 |
| Flexural Elastic Modulus Sandwich: | .913E6 |
| Flexural Elastic Modulus Core: | 7000 |
| AutoCalc Omega | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Half Buckle Wave(h/L): | |

Submit

Done

Start |  Untitled - ... | Connect... | EarthLi... |  8:42 PM

FIGURE 17)

earthLink 5.0 - (dibus@earthlink.net) - [Web - Engineering-I]

File Edit View Go Tools Window Help

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engineering-i.com

COREDES™

Input Parameters:

PL Moment
Abs Sand
Elas Lim1
Elas Lim2
Elas Fdn
Sailboat
Planboat
Single Skin
Programs
Home

Top Skin Thickness = 0.1
Core Thickness = 0.954
Bottom Skin Thickness = 0.112
Flexural Elastic Modulus Sandwich = 913000.0
Flexural Elastic Modulus Core = 7000.0
AutoCalc Omega = Yes

Output Results:

Omega (Geometric) = 0.00232065
1/2 Buck = 0.88682025

Omega 1 = 9.63243850889533E-5
Omega 2 = 1.0361503725543246E-5
Omega 3 = -0.009798827718722184
Omega 4 = -0.004107235245087985
Omega = 0.0024765323898214347

SIGMA* = 0.0251371
Sigma CRIT. (Prin. yield) = 2853.2546927

Done

Start |  | Untitled - ... | Connect... | EarthLi... |  8:44 PM

FIGURE 13)

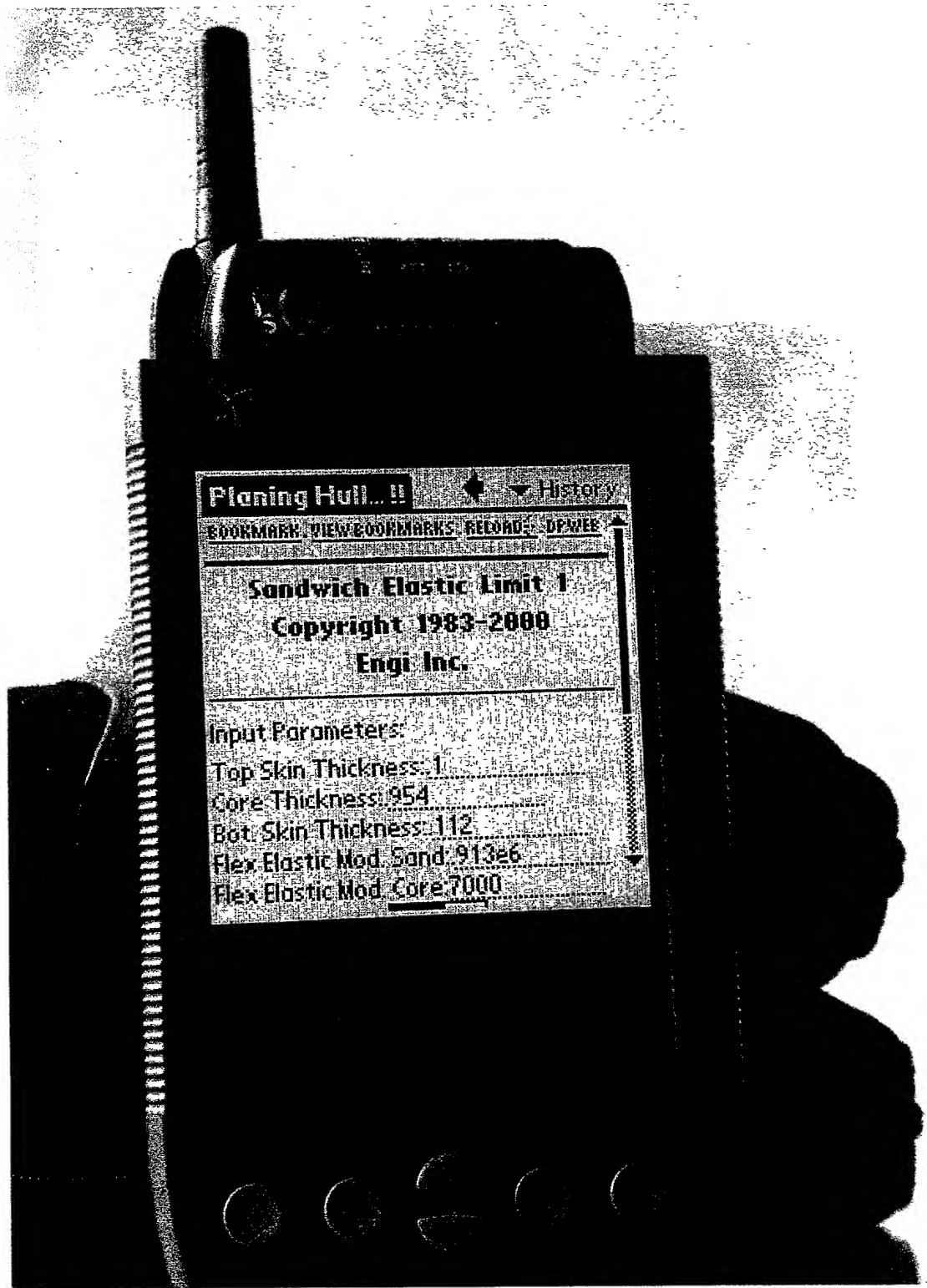


1001020304050607080900

FIGURE (9)



PRINTED ON COMPUTER



Sandwich Elas... History

Core Thickness = 0.954
Bot. Skin Thickness = 0.112
Flex Elastic Mod. Sandwich = 913899.0
Flex Elastic Mod. Core = 7000.0
Auto calc Omega = Yes
Output:
1/2 Buckle Wave = 0.887
Omega (geometric) = 0.00232
Omega = 0.00248
 $\Sigma\text{IGMA}^2 = 0.025$
Sigma Crit (Prin. yield) = 2853.255

Figure 12

